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Multi-Wavelength Observations of NGC 1365

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A dusty supergiant barred spiral galaxy, NGC 1365 ((R)'SB(s)b, Seyfert 1.5 nucleus, d≈18.6 Mpc), was observed in B, I, and K-band. The $I+K$ surface photometry and mass modeling results, combined with kinematical data from the literature, will be presented. From the preliminary results, $(B-I)$ colors are more or less constant in the disk regions (r$\gtrsim$2'). The prominent dust lanes running along the front side of the bar, even in J-band, are almost completely diminished in K-band. This manifests the superiority of K-band photometry in calculating more accurate gravitational potentials of galaxies. N-body modeling of the galaxy will be attempted using the $I+K$ photometry results in the near future.

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